

**Data Validation Checklist**  
**Semivolatile Organic Analyses**

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica – Tampa, FL  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Jane Lindsey  
 Concurrence<sup>1</sup>: Carol Lovett, Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-87320-2  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date(s) Collected: 02/06/2013  
 Date: 02/28/2013  
 Date: 03/28/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met ( $\leq$ 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; $\leq$ 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 020513-RB-Bowls+Spoons (680-87170-29).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

<sup>1</sup> Independent technical reviewer

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
no, note in DV report.				occurs once per week per the client. A rinsate blank (020513-RB-Bowls+Spoons) was collected during the week of 02/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87170-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>• Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>• An initial calibration is to be associated with each sample analysis.</li> <li>• A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>	✓			<ul style="list-style-type: none"> <li>• Initial Calibration: 01/07/2013, instrument BSMC5973</li> <li>• ICV: 01/07/2013 @17:31</li> <li>• CCV: 02/19/2013 @11:06</li> <li>• CCV: 02/20/2013 @14:21</li> </ul>	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>• ICAL (Criteria: <math>\leq 15</math> mean %RSD with individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>○ If %RSD &gt; 15 (&gt; 50% for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>○ If mean RRF &lt; 0.050 (&lt; 0.010 for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> </li> </ul>	✓				

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
<ul style="list-style-type: none"> <li>• ICV and CCV (Criteria: <math>\leq 20\%</math>D (<math>\leq 50\%</math> for poor performers) and RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):           <ul style="list-style-type: none"> <li>◦ If %D&gt;20 (<math>&gt;50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>◦ If RF &lt;0.050 (<math>&lt;0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects		✓		LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>• Prep Batch 134575: 680-87320-21 (CV0748AD-GS), MS/MSD</li> <li>• Prep Batch 134620: 680-87447-2 (Batch sample), MS/MSD</li> </ul>	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>• If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>• MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>• MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>• MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>		✓		<p>CV0748AD-GS (680-87320-21):</p> <ul style="list-style-type: none"> <li>• Benzo(b)fluoranthene MSD @ 133%R (37-130). Qualification of data is not required, because the MS %R (96) is within acceptance criteria.</li> <li>• Fluoranthene MSD @ 131%R (40-130). Qualification of data is not required, because the MS %R (78) is within acceptance criteria.</li> <li>• Pyrene MSD @ 145%R (44-130). Qualification of data is not required, because the MS %R (100) is within acceptance criteria.</li> </ul>	
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>• If %RPD &gt; UCL, J-flag positive result and UJ-flag non-</li> </ul>	✓				

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
detect result					
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> <li>• If %R &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>• If %R &gt;UCL, then J-flag positive results</li> <li>• %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>• If 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> <li>• If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>• If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>• If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>• The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.</li> </ul>	✓				
29. Were lab comments included in report?	✓			Refer to <b>Attachment B</b> (Case Narrative)	
<b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review (EPA, October 1999) and USEPA CLP NFG for Low Concentration Organic Methods Data Review (EPA, June 2001). Sample results have been qualified based on the results of the data review process ( <b>Attachment C</b> ). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

## Data Validation Checklist (Continued)

**DV Flag Definitions:**

- J      The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R      The sample results are unusable. The analyte may or may not be present in the sample.
- U      The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ     The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**

## Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87320-21	CV0748AD-GS	Solid	02/06/13 13:06	02/09/13 09:34
680-87320-22	CV0748AE-GS	Solid	02/06/13 15:30	02/09/13 09:34
680-87320-23	CV0748RR-CS	Solid	02/06/13 13:03	02/09/13 09:34
680-87320-24	CV0748SS-CS	Solid	02/06/13 13:26	02/09/13 09:34
680-87320-25	CV0748TT-CS	Solid	02/06/13 13:24	02/09/13 09:34
680-87320-26	CV0748UU-CS	Solid	02/06/13 13:49	02/09/13 09:34
680-87320-27	CV0748WW-CS	Solid	02/06/13 13:57	02/09/13 09:34
680-87320-28	CV0748XX-CS	Solid	02/06/13 14:07	02/09/13 09:34
680-87320-29	CV0748YY-CS	Solid	02/06/13 14:24	02/09/13 09:34
680-87320-30	CV0748ZZ-CS	Solid	02/06/13 14:28	02/09/13 09:34
680-87320-31	CV0748BBB-CS	Solid	02/06/13 14:47	02/09/13 09:34
680-87320-32	CV0748DDD-CS	Solid	02/06/13 15:19	02/09/13 09:34
680-87320-33	CV0748GGG-CS	Solid	02/06/13 15:42	02/09/13 09:34
680-87320-34	CV0748HHH-CS	Solid	02/06/13 15:45	02/09/13 09:34
680-87320-35	CV0797A-CS	Solid	02/06/13 14:20	02/09/13 09:34
680-87320-36	CV0798A-CS	Solid	02/06/13 14:00	02/09/13 09:34
680-87320-37	CV0962D-CS	Solid	02/06/13 13:55	02/09/13 09:34

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**ATTACHMENT B**  
**CASE NARRATIVE**

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
SDG: 68087320-2

**Job ID: 680-87320-2**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-87320-2**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### RECEIPT

The samples were received on 02/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.0 C.

#### **SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL**

Samples CV0748AD-GS (680-87320-21), CV0748AE-GS (680-87320-22), CV0748RR-CS (680-87320-23), CV0748SS-CS (680-87320-24), CV0748TT-CS (680-87320-25), CV0748UU-CS (680-87320-26), CV0748WW-CS (680-87320-27), CV0748XX-CS (680-87320-28), CV0748YY-CS (680-87320-29), CV0748ZZ-CS (680-87320-30), CV0748BBB-CS (680-87320-31), CV0748DDD-CS (680-87320-32), CV0748GGG-CS (680-87320-33), CV0748HHH-CS (680-87320-34), CV0797A-CS (680-87320-35), CV0798A-CS (680-87320-36) and CV0962D-CS (680-87320-37) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/18/2013 and 02/19/2013 and analyzed on 02/19/2013 and 02/20/2013.

Samples CV0748AD-GS (680-87320-21)[4X], CV0748AE-GS (680-87320-22)[4X], CV0748RR-CS (680-87320-23)[4X], CV0748SS-CS (680-87320-24)[4X], CV0748TT-CS (680-87320-25)[4X], CV0748UU-CS (680-87320-26)[4X], CV0748WW-CS (680-87320-27)[4X], CV0748XX-CS (680-87320-28)[4X], CV0748YY-CS (680-87320-29)[4X], CV0748ZZ-CS (680-87320-30)[4X], CV0748BBB-CS (680-87320-31)[4X], CV0748DDD-CS (680-87320-32)[4X], CV0748HHH-CS (680-87320-34)[4X], CV0797A-CS (680-87320-35)[4X], CV0798A-CS (680-87320-36)[4X] and CV0962D-CS (680-87320-37)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[b]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria for the MSD of sample CV0748AD-GSMSD (680-87320-21) in batch 660-134673.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT C**

**QUALIFIED SAMPLE RESULTS**

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

**Client Sample ID: CV0748AD-GS**

Date Collected: 02/06/13 13:06

Date Received: 02/09/13 09:34

**Lab Sample ID: 680-87320-21**

Matrix: Solid

Percent Solids: 72.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Acenaphthylene	48	J	220	27	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Anthracene	100		45	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Benzo[a]anthracene	500		43	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Benzo[a]pyrene	480		56	28	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Benzo[b]fluoranthene	810	F	66	33	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Benzo[g,h,i]perylene	410		110	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Benzo[k]fluoranthene	360		43	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Chrysene	620		49	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Dibenz(a,h)anthracene	120		110	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Fluoranthene	760	F	110	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Fluorene	34	J	110	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Indeno[1,2,3-cd]pyrene	310		110	38	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
1-Methylnaphthalene	190	J	220	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
2-Methylnaphthalene	210	J	220	38	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Naphthalene	180	J	220	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Phenanthrene	440		43	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
Pyrene	720	F	110	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:49	4
<b>Surrogate</b>		<b>%Recovery</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		113			30 - 130		02/18/13 11:03	02/19/13 17:49	4

**Client Sample ID: CV0748AE-GS**

Date Collected: 02/06/13 15:30

Date Received: 02/09/13 09:34

**Lab Sample ID: 680-87320-22**

Matrix: Solid

Percent Solids: 71.4

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Acenaphthylene	77	J	220	28	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Anthracene	220		47	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Benzo[a]anthracene	870		45	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Benzo[a]pyrene	870		58	29	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Benzo[b]fluoranthene	1500		69	34	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Benzo[g,h,i]perylene	680		110	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Benzo[k]fluoranthene	470		45	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Chrysene	1100		51	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Dibenz(a,h)anthracene	200		110	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Fluoranthene	1500		110	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Fluorene	81	J	110	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Indeno[1,2,3-cd]pyrene	490		110	40	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
1-Methylnaphthalene	310		220	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
2-Methylnaphthalene	350		220	40	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Naphthalene	300		220	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Phenanthrene	1000		45	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
Pyrene	1500		110	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 18:44	4
<b>Surrogate</b>		<b>%Recovery</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		91			30 - 130		02/18/13 11:03	02/19/13 18:44	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

### Client Sample ID: CV0748RR-CS

Date Collected: 02/06/13 13:03  
 Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-23

Matrix: Solid  
 Percent Solids: 73.0

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Acenaphthylene	96	J	220	27	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Anthracene	55		46	23	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Benz[a]anthracene	450		43	21	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Benz[a]pyrene	400		57	28	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Benz[b]fluoranthene	690		66	33	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Benz[g,h,i]perylene	290		110	24	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Benz[k]fluoranthene	300		43	20	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Chrysene	530		49	24	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Dibenz(a,h)anthracene	88	J	110	22	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Fluoranthene	690		110	22	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Fluorene	110	U	110	22	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Indeno[1,2,3-cd]pyrene	220		110	39	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
1-Methylnaphthalene	200	J	220	24	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
2-Methylnaphthalene	200	J	220	39	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Naphthalene	190	J	220	24	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Phenanthrene	480		43	21	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
Pyrene	690		110	20	ug/Kg	∅	02/18/13 11:03	02/19/13 19:02	4
<b>Surrogate</b>		%Recovery	Qualifier	Limits			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		97		30 - 130			02/18/13 11:03	02/19/13 19:02	4

### Client Sample ID: CV0748SS-CS

Date Collected: 02/06/13 13:26  
 Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-24

Matrix: Solid  
 Percent Solids: 76.2

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Acenaphthylene	27	J	210	26	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Anthracene	48		44	22	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Benz[a]anthracene	340		42	20	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Benz[a]pyrene	300		54	27	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Benz[b]fluoranthene	580		64	32	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Benz[g,h,i]perylene	270		100	23	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Benz[k]fluoranthene	150		42	19	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Chrysene	400		47	24	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Dibenz(a,h)anthracene	89	J	100	21	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Fluoranthene	550		100	21	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Fluorene	30	J	100	21	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Indeno[1,2,3-cd]pyrene	170		100	37	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
1-Methylnaphthalene	170	J	210	23	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
2-Methylnaphthalene	120	J	210	37	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Naphthalene	120	J	210	23	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Phenanthrene	330		42	20	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
Pyrene	500		100	19	ug/Kg	∅	02/18/13 11:03	02/19/13 19:21	4
<b>Surrogate</b>		%Recovery	Qualifier	Limits			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		96		30 - 130			02/18/13 11:03	02/19/13 19:21	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

### Client Sample ID: CV0748TT-CS

Date Collected: 02/06/13 13:24  
 Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-25

Matrix: Solid  
 Percent Solids: 69.1

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Acenaphthylene	68	J	230	29	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Anthracene	110		48	24	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Benzo[a]anthracene	630		46	22	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Benzo[a]pyrene	550		60	30	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Benzo[b]fluoranthene	950		70	35	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Benzo[g,h,i]perylene	440		110	25	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Benzo[k]fluoranthene	270		46	21	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Chrysene	680		52	26	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Dibenz(a,h)anthracene	110		110	24	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Fluoranthene	970		110	23	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Fluorene	39	J	110	24	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Indeno[1,2,3-cd]pyrene	370		110	41	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
1-Methylnaphthalene	270		230	25	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
2-Methylnaphthalene	280		230	41	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Naphthalene	220	J	230	25	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Phenanthrene	630		46	22	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
Pyrene	940		110	21	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:39	4
<b>Surrogate</b>		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		94		30 - 130			02/18/13 11:03	02/19/13 19:39	4

### Client Sample ID: CV0748UU-CS

Date Collected: 02/06/13 13:49  
 Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-26

Matrix: Solid  
 Percent Solids: 75.9

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Acenaphthylene	55	J	210	26	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Anthracene	87		44	22	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Benzo[a]anthracene	450		42	20	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Benzo[a]pyrene	420		54	27	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Benzo[b]fluoranthene	700		64	32	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Benzo[g,h,i]perylene	300		100	23	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Benzo[k]fluoranthene	210		42	19	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Chrysene	530		47	23	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Dibenz(a,h)anthracene	97	J	100	21	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Fluoranthene	660		100	21	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Fluorene	24	J	100	21	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Indeno[1,2,3-cd]pyrene	240		100	37	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
1-Methylnaphthalene	270		210	23	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
2-Methylnaphthalene	260		210	37	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Naphthalene	160	J	210	23	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Phenanthrene	520		42	20	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
Pyrene	670		100	19	ug/Kg	Ø	02/18/13 11:03	02/19/13 19:57	4
<b>Surrogate</b>		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		104		30 - 130			02/18/13 11:03	02/19/13 19:57	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

### Client Sample ID: CV0748WW-CS

Date Collected: 02/06/13 13:57  
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-27  
 Matrix: Solid  
 Percent Solids: 77.5

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Acenaphthylene	65	J	210	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Anthracene	580		43	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Benz[a]anthracene	2800		41	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Benz[a]pyrene	1900		54	27	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Benz[b]fluoranthene	3500		63	32	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Benz[g,h,i]perylene	1100		100	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Benz[k]fluoranthene	1200		41	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Chrysene	2500		47	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Dibenz(a,h)anthracene	360		100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Fluoranthene	6400		100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Fluorene	120		100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Indeno[1,2,3-cd]pyrene	870		100	37	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
1-Methylnaphthalene	99	J	210	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
2-Methylnaphthalene	150	J	210	37	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Naphthalene	120	J	210	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Phenanthrene	2200		41	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
Pyrene	5300		100	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:15	4
<b>Surrogate</b>		%Recovery	Qualifier	Limits			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		101		30 - 130			02/18/13 11:03	02/19/13 20:15	4

### Client Sample ID: CV0748XX-CS

Date Collected: 02/06/13 14:07  
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-28  
 Matrix: Solid  
 Percent Solids: 95.0

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	420	U	420	84	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Acenaphthylene	29	J	170	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Anthracene	40		35	18	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Benz[a]anthracene	300		34	16	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Benz[a]pyrene	270		44	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Benz[b]fluoranthene	490		51	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Benz[g,h,i]perylene	220		84	18	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Benz[k]fluoranthene	120		34	15	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Chrysene	340		38	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Dibenz(a,h)anthracene	66	J	84	17	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Fluoranthene	450		84	17	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Fluorene	17	J	84	17	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Indeno[1,2,3-cd]pyrene	170		84	30	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
1-Methylnaphthalene	130	J	170	18	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
2-Methylnaphthalene	130	J	170	30	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Naphthalene	110	J	170	18	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Phenanthrene	260		34	16	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
Pyrene	430		84	15	ug/Kg	⊗	02/18/13 11:03	02/19/13 20:34	4
<b>Surrogate</b>		%Recovery	Qualifier	Limits			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		107		30 - 130			02/18/13 11:03	02/19/13 20:34	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

### Client Sample ID: CV0748YY-CS

Date Collected: 02/06/13 14:24  
 Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-29

Matrix: Solid  
 Percent Solids: 89.9

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	87	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Acenaphthylene	35	J	170	22	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Anthracene	63		36	18	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Benzo[a]anthracene	330		35	17	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Benzo[a]pyrene	310		45	23	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Benzo[b]fluoranthene	510		53	26	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Benzo[g,h,i]perylene	200		87	19	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Benzo[k]fluoranthene	140		35	16	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Chrysene	360		39	19	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Dibenz(a,h)anthracene	76	J	87	18	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Fluoranthene	490		87	17	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Fluorene	25	J	87	18	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Indeno[1,2,3-cd]pyrene	170		87	31	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
1-Methylnaphthalene	130	J	170	19	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
2-Methylnaphthalene	150	J	170	31	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Naphthalene	120	J	170	19	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Phenanthrene	350		35	17	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
Pyrene	470		87	16	ug/Kg	Ø	02/18/13 11:03	02/19/13 20:52	4
<b>Surrogate</b>		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		109			30 - 130		02/18/13 11:03	02/19/13 20:52	4

### Client Sample ID: CV0748ZZ-CS

Date Collected: 02/06/13 14:28  
 Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-30

Matrix: Solid  
 Percent Solids: 95.9

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	U	410	82	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Acenaphthylene	69	J	160	20	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Anthracene	120		34	17	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Benzo[a]anthracene	570		33	16	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Benzo[a]pyrene	550		43	21	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Benzo[b]fluoranthene	930		50	25	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Benzo[g,h,i]perylene	370		82	18	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Benzo[k]fluoranthene	240		33	15	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Chrysene	610		37	18	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Dibenz(a,h)anthracene	120		82	17	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Fluoranthene	970		82	16	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Fluorene	38	J	82	17	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Indeno[1,2,3-cd]pyrene	240		82	29	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
1-Methylnaphthalene	130	J	160	18	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
2-Methylnaphthalene	140	J	160	29	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Naphthalene	120	J	160	18	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Phenanthrene	550		33	16	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
Pyrene	910		82	15	ug/Kg	Ø	02/18/13 11:03	02/19/13 21:10	4
<b>Surrogate</b>		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		105			30 - 130		02/18/13 11:03	02/19/13 21:10	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

**Client Sample ID: CV0748BBB-CS**

Date Collected: 02/06/13 14:47

Date Received: 02/09/13 09:34

**Lab Sample ID: 680-87320-31**

Matrix: Solid

Percent Solids: 93.2

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	85	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Acenaphthylene	48	J	170	21	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Anthracene	54		36	18	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Benzo[a]anthracene	320		34	17	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Benzo[a]pyrene	320		44	22	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Benzo[b]fluoranthene	620		52	26	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Benzo[g,h,i]perylene	260		85	19	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Benzo[k]fluoranthene	170		34	15	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Chrysene	410		38	19	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Dibenz(a,h)anthracene	79	J	85	18	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Fluoranthene	520		85	17	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Fluorene	18	J	85	18	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Indeno[1,2,3-cd]pyrene	180		85	30	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
1-Methylnaphthalene	120	J	170	19	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
2-Methylnaphthalene	130	J	170	30	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Naphthalene	130	J	170	19	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Phenanthrene	290		34	17	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
Pyrene	510		85	16	ug/Kg	∅	02/18/13 11:03	02/19/13 21:28	4
<i>Surrogate</i>		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		92		30 - 130			02/18/13 11:03	02/19/13 21:28	4

**Client Sample ID: CV0748DDD-CS**

Date Collected: 02/06/13 15:19

Date Received: 02/09/13 09:34

**Lab Sample ID: 680-87320-32**

Matrix: Solid

Percent Solids: 97.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	U	410	83	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Acenaphthylene	63	J	170	21	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Anthracene	89		35	17	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Benzo[a]anthracene	480		33	16	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Benzo[a]pyrene	460		43	22	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Benzo[b]fluoranthene	760		51	25	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Benzo[g,h,i]perylene	350		83	18	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Benzo[k]fluoranthene	330		33	15	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Chrysene	550		37	19	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Dibenz(a,h)anthracene	120		83	17	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Fluoranthene	780		83	17	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Fluorene	30	J	83	17	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Indeno[1,2,3-cd]pyrene	290		83	29	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
1-Methylnaphthalene	190		170	18	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
2-Methylnaphthalene	260		170	29	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Naphthalene	200		170	18	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Phenanthrene	450		33	16	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
Pyrene	720		83	15	ug/Kg	∅	02/18/13 11:03	02/19/13 21:47	4
<i>Surrogate</i>		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		89		30 - 130			02/18/13 11:03	02/19/13 21:47	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

### Client Sample ID: CV0748GGG-CS

Date Collected: 02/06/13 15:42

Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-33

Matrix: Solid

Percent Solids: 95.4

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Acenaphthylene	10	J	41	5.1	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Anthracene	15		8.6	4.3	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Benz[a]anthracene	100		8.2	4.0	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Benz[a]pyrene	98		11	5.3	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Benz[b]fluoranthene	170		12	6.2	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Benz[g,h,i]perylene	79		20	4.5	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Benz[k]fluoranthene	55		8.2	3.7	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Chrysene	120		9.2	4.6	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Dibenz(a,h)anthracene	26		20	4.2	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Fluoranthene	170		20	4.1	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Fluorene	8.6	J	20	4.2	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Indeno[1,2,3-cd]pyrene	71		20	7.3	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
1-Methylnaphthalene	33	J	41	4.5	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
2-Methylnaphthalene	37	J	41	7.3	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Naphthalene	33	J	41	4.5	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Phenanthrene	100		8.2	4.0	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
Pyrene	150		20	3.8	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:34	1
<b>Surrogate</b>		%Recovery	Qualifier		Limits				
<i>o-Terphenyl</i>		57			30 - 130				
							Prepared	Analyzed	Dil Fac
							02/19/13 11:06	02/20/13 15:34	1

### Client Sample ID: CV0748HHH-CS

Date Collected: 02/06/13 15:45

Date Received: 02/09/13 09:34

### Lab Sample ID: 680-87320-34

Matrix: Solid

Percent Solids: 80.0

#### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Acenaphthylene	42	J	200	25	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Anthracene	94		42	21	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Benz[a]anthracene	440		40	19	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Benz[a]pyrene	420		52	26	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Benz[b]fluoranthene	710		60	30	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Benz[g,h,i]perylene	370		99	22	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Benz[k]fluoranthene	220		40	18	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Chrysene	430		45	22	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Dibenz(a,h)anthracene	93	J	99	20	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Fluoranthene	770		99	20	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Fluorene	48	J	99	20	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Indeno[1,2,3-cd]pyrene	270		99	35	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
1-Methylnaphthalene	110	J	200	22	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
2-Methylnaphthalene	140	J	200	35	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Naphthalene	100	J	200	22	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Phenanthrene	440		40	19	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
Pyrene	630		99	18	ug/Kg	⊗	02/19/13 11:06	02/20/13 15:52	4
<b>Surrogate</b>		%Recovery	Qualifier		Limits				
<i>o-Terphenyl</i>		87			30 - 130				
							Prepared	Analyzed	Dil Fac
							02/19/13 11:06	02/20/13 15:52	4

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Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

**Client Sample ID: CV0797A-CS**

Date Collected: 02/06/13 14:20

Date Received: 02/09/13 09:34

**Lab Sample ID: 680-87320-35**

Matrix: Solid

Percent Solids: 98.5

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	U	410	82	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Acenaphthylene	85	J	160	20	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Anthracene	100		34	17	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Benzo[a]anthracene	510		33	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Benzo[a]pyrene	470		42	21	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Benzo[b]fluoranthene	830		50	25	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Benzo[g,h,i]perylene	310		82	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Benzo[k]fluoranthene	260		33	15	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Chrysene	640		37	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Dibenz(a,h)anthracene	100		82	17	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Fluoranthene	1000		82	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Fluorene	42	J	82	17	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Indeno[1,2,3-cd]pyrene	290		82	29	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
1-Methylnaphthalene	110	J	160	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
2-Methylnaphthalene	120	J	160	29	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Naphthalene	120	J	160	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Phenanthrene	550		33	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
Pyrene	880		82	15	ug/Kg	✉	02/19/13 11:06	02/20/13 16:10	4
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	106						02/19/13 11:06	02/20/13 16:10	4
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**Client Sample ID: CV0798A-CS**

Date Collected: 02/06/13 14:00

Date Received: 02/09/13 09:34

**Lab Sample ID: 680-87320-36**

Matrix: Solid

Percent Solids: 97.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	400	U	400	80	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Acenaphthylene	72	J	160	20	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Anthracene	78		34	17	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Benzo[a]anthracene	490		32	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Benzo[a]pyrene	430		42	21	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Benzo[b]fluoranthene	770		49	24	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Benzo[g,h,i]perylene	260		80	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Benzo[k]fluoranthene	260		32	14	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Chrysene	530		36	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Dibenz(a,h)anthracene	93		80	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Fluoranthene	930		80	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Fluorene	20	J	80	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Indeno[1,2,3-cd]pyrene	220		80	28	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
1-Methylnaphthalene	170		160	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
2-Methylnaphthalene	200		160	28	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Naphthalene	130	J	160	18	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Phenanthrene	510		32	16	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
Pyrene	840		80	15	ug/Kg	✉	02/19/13 11:06	02/20/13 16:28	4
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	72						02/19/13 11:06	02/20/13 16:28	4
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Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-2  
 SDG: 68087320-2

**Client Sample ID: CV0962D-CS**

Date Collected: 02/06/13 13:55

Date Received: 02/09/13 09:34

**Lab Sample ID: 680-87320-37**

Matrix: Solid

Percent Solids: 89.8

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	89	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Acenaphthylene	38	J	180	22	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Anthracene	88		37	19	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Benzo[a]anthracene	680		36	17	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Benzo[a]pyrene	850		46	23	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Benzo[b]fluoranthene	1200		54	27	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Benzo[g,h,i]perylene	710		89	20	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Benzo[k]fluoranthene	520		36	16	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Chrysene	740		40	20	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Dibenz(a,h)anthracene	170		89	18	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Fluoranthene	1400		89	18	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Fluorene	23	J	89	18	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Indeno[1,2,3-cd]pyrene	610		89	32	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
1-Methylnaphthalene	34	J	180	20	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
2-Methylnaphthalene	42	J	180	32	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Naphthalene	40	J	180	20	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Phenanthrene	430		36	17	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
Pyrene	1300		89	17	ug/Kg	∅	02/19/13 11:06	02/20/13 16:46	4
<b>Surrogate</b>		<b>%Recovery</b>		<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		79			30 - 130		02/19/13 11:06	02/20/13 16:46	4

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Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)